

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

1st TERM (October to December 1987)

HIGH-ENERGY PHYSICS

- "Heavy ion collisions at high energy"
by W. GEIST (LBL Berkeley & CERN/EP)
3 lectures : October 21 to 23
- "Possible experimental manifestations of supersymmetry & superstrings"
by J.R. ELLIS (CERN/TH)
4 lectures : November 9 to 12

OTHER BRANCHES OF PHYSICS

- "Biophysics of human energetics"
by P. CERRETELLI (Département Physiologie, CMU, Genève)
& P.E. DI PRAMPERO (University of Udine)
4 lectures : November 3 to 6
- "The solar neutrinos problem" & "Dark matter in the Universe"
by E. SCHATZMAN (Observatoire de Nice)
2 lectures : December 1 & 2

ACCELERATORS & PARTICLE DETECTORS

- "Applications of synchrotron radiation"
by W. STEINMANN (University of Munich)
3 lectures : October 27 to 29

MATHEMATICS & COMPUTER SCIENCE

- "Méthodes modernes d'analyse des données" (in French)
by J. DE LAGARDE (IUT, Annecy)
5 lectures : October 12 to 16
- "Introduction to vector processing"
by H. LIPPS (CERN/DD)
3 lectures : November 23 to 25

ENGINEERING & TECHNOLOGY

- "Theoretical and experimental aspects of the Free Electron Laser"
by G. DATTOLI & E. SABIA (ENEA, Frascati)
5 lectures : November 16 to 20

2nd TERM (January to March 1988)

HISTORY OF PHYSICS

- "Ideas on the philosophy of science"
"The meaning of quantum theory"
"Political and moral consequences of science"
by C.F. VON WEIZSÄCKER (Max-Planck Institute, Starnberg)
3 lectures : January 8, 11, 13

HIGH-ENERGY PHYSICS

- "Neutrinos : our state of ignorance"
by M. SPIRO (CEN, Saclay)
3 lectures : between February 8 & 12

OTHER BRANCHES OF PHYSICS

- "The cosmic puzzle : phenomenology of the Universe"
by A. DE RUJULA (CERN/TH)
5 lectures : January 25 to 29
- "Gravitational waves"
by G. PIZELLA (CERN/EF)
2 lectures : between February 1 & 5

MATHEMATICS & COMPUTER SCIENCE

- "Knowledge engineering with expert and deduction systems"
by B. HUMPERT (IKOSS-Zurich Ltd.)
4 lectures : between March 1 & 11
- "Computer communications : theory and practice"
by B. CARPENTER & F. FLÜCKIGER (CERN/DD)
5 lectures : between March 7 & 18

HISTORY OF PHYSICS

- "History of relativity"
by J.S. BELL (CERN/TH)
2-3 lectures : May or June

HIGH-ENERGY PHYSICS

- "QCD for pedestrians"
by G. ALTARELLI (CERN/TH)
3 lectures : second half of April
- "Mixing and CP violation in heavy quark states"
by Ph. BLOCH (CERN/EP) & L. MAIANI (University of Rome)
5 lectures : June
- "Experimental searches for dark matter"
by B. SADOULET (University of California, Berkeley)
2 lectures : June

ACCELERATORS & PARTICLE DETECTORS

- "Technical problems of new accelerators"
by K. JOHNSEN
4 lectures : between May 2 & 6

MATHEMATICS & COMPUTER SCIENCE

- "Théorie des catastrophes" (in French)
by R. THOM (IHES, Bures-sur-Yvette)
3 lectures : between May 9 & 20

The lectures usually take place from 11h to 12h, in the Main Auditorium.

They are open to all those interested, without application.

The abstract of the lectures, as well as any change to the above information (title, dates, time, place, etc.) will be published in the CERN Bulletin and by Notices before each Term and for each series of lectures.